

Claims

1. A device for bonding ceramic structural bodies with a bonding agent,

5 wherein in the state in which a set of ceramic structural bodies provided with the bonding agent between bonding surfaces of the structural bodies and provided with elastic sleeves disposed on a peripheral surface of a set of the structural bodies are placed in a tubular container with
10 an elastic sheet disposed between the elastic sleeves and the tubular container, the device charges a hydrostatic pressure medium between the tubular container and the elastic sheet to press and bond the structural bodies.

15 2. The device according to claim 1, wherein the elastic sleeves are made to contacted with the ceramic structural bodies and made to be compressed by pressing at a high pressing speed, then the ceramic structural bodies are made to be pressed at a low pressing speed.

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3. The device according to claim 1, wherein the bonding agent comprises a ceramic material as a main raw material.

4. The device according to claim 1, wherein both the
25 elastic sheet and the elastic sleeves are made of a rubber material.

5. The device according to claim 1, wherein the ceramic structural body is a honeycomb structural body.

6. A method for bonding ceramic structural bodies,
wherein the method comprises:

5 a first step of forming a set of the ceramic
structural bodies by applying a bonding agent between
bonding surfaces of the structural bodies;

a second step of disposing elastic sleeves on a
peripheral surface of the set of the ceramic structural
bodies;

10 a third step of placing the ceramic structural bodies
with the elastic sleeves in a tubular container with
disposing an elastic sheet between the elastic sleeves and
the tubular container; and

a fourth step of charging a hydrostatic pressure
15 medium between the tubular container and the elastic sheet.